

We claim:

1. A pressure tank comprising:

an upper chamber having a hole on top thereof;

an inner chamber enclosed by said upper chamber, said inner chamber

5 having an inward protrusion on top thereof, said inward protrusion having a through hole aligned with said hole of said upper chamber and a recession around said through hole thereof;

a sealing washer installed between said upper chamber and said inner chamber, said sealing washer having a through hole aligned with said through hole of

10 said inner chamber;

a stainless steel connector engaged through said hole of said upper chamber, said through hole of said sealing washer, and said through hole of said inner chamber in order;

a leakproof ring placed around a joint of said inward protrusion and said
15 stainless steel connector, said leakproof ring being received in said recession of said inward protrusion;

a stainless steel ring washer surrounding said stainless steel connector and overlaying said leakproof ring;

an elastic diaphragm mounted on an inner side of said inner chamber and
20 defining said upper chamber and a lower chamber, said lower chamber having an inlet for inputting air thereto;

wherein a bottom of said stainless steel connector being riveted to press against said stainless steel ring washer to hold said leakproof ring firmly and secure said inner chamber to said upper chamber.

2. The pressure tank as claimed in claim 1, wherein said stainless steel connector includes a threaded section, a soldering section, and an engaging section, said threaded section of said stainless steel connector being connected to a water pipe, said soldering section of said stainless steel connector being mounted on a lower
5 portion of the threaded section of the stainless steel connector, and has a cylindrical shape, so that said soldering section of the stainless steel connector may be soldered on the tank body rapidly, said engaging section being engaged through said hole of said upper chamber, said through hole of said sealing washer, and said through hole of said inner chamber in order.

10 3. The pressure tank as claimed in claim 2 wherein said engaging section having a thicker portion and a thinner portion, said thinner portion being formed below and connected to said thicker portion for being riveted to press said stainless steel ring washer to hold said leakproof ring firmly.

4. The pressure tank as claimed in claim 3 further comprising a securing ring
15 for securing a bottom periphery of said inner chamber to said upper chamber.

5. The pressure tank as claimed in claim 4 wherein said elastic diaphragm having a reinforced area for resisting a pressure ejected from said inlet of said lower chamber.

6. The pressure tank as claimed in claim 5 wherein said reinforced area of
20 said elastic diaphragm contains plural reinforcing bumps thereon, said reinforced area being thicker than other areas thereof.

7. The pressure tank as claimed in claim 6 wherein said soldering section is of a cylindrical shape, in order said soldering section of said stainless steel connector to be soldered on said upper chamber rapidly by an automatic spot welder.